

The Puerto Rico Address Data Working Group (PRADWG) Phase 3 Final Report

Greg Hanks, Executive Champion

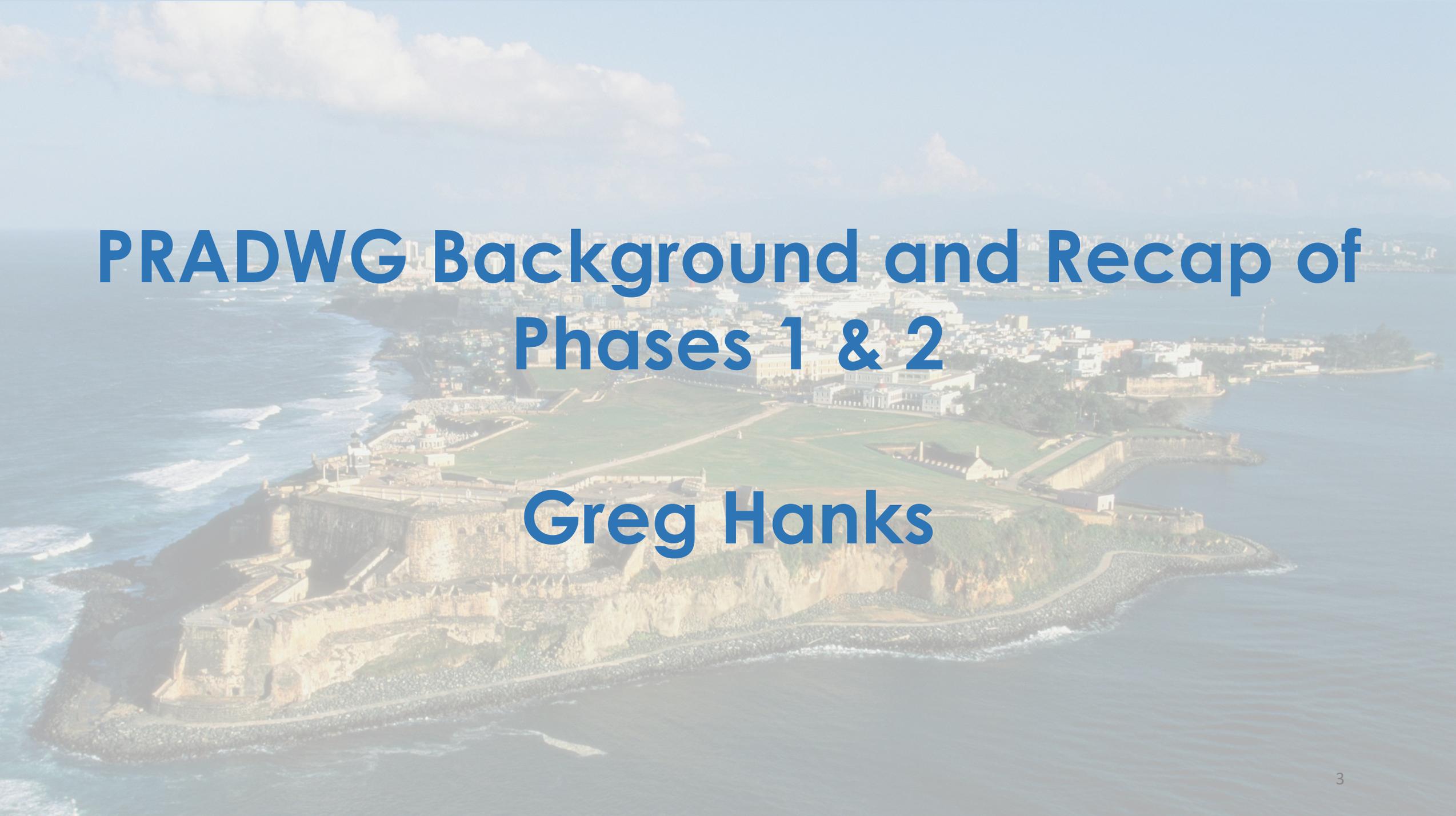
Lynda Liptrap, PRADWG Chair

David Cackowski, PRADWG member

December 9, 2020

Topics

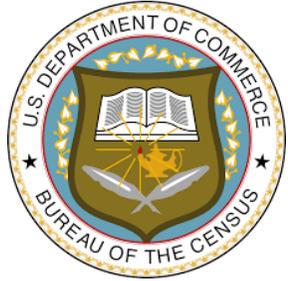
1. PRADWG Background and Recap of Phases 1 & 2 – Greg Hanks, U.S. Census Bureau
2. Phase 3 Overview – Lynda Liptrap, U.S. Census Bureau
3. Phase 3 Report – David Cackowski, U.S. Census Bureau
4. Phase 3 Closeout – Lynda Liptrap, U.S. Census Bureau



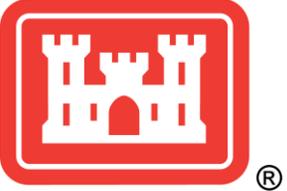
PRADWG Background and Recap of Phases 1 & 2

Greg Hanks

Participating Agencies



FEMA



PRADWG Purpose Statement

The Puerto Rico Address Data Working Group Purpose Statement:

- **Promotes agency collaboration, transparency, and strategic prioritization in the federal address collection and management process for PR;**
- **Documents use cases representing the various agency requirements for collecting and maintaining PR address data;**
- **Documents agency challenges in collecting and maintaining PR address data (Phase 2); and**
- **Aligns with the goals of the FGDC Address Theme and Subcommittee to contribute to the National Geospatial Data Infrastructure (NSDI).**

Phase 1 - Top 3 Agency Proven Practices

Recognizing the differences in Puerto Rico addresses and accounting for them in the data model (e.g., adding urbanizacion name field).

Standardizing and cleaning the data whether through manual or automated methods.

Validating the data through fieldwork or a source such as the US Postal Service.

Recommendations

Recommend that all federal agency Puerto Rico address data stakeholders adopt one or more of the proven practices identified in this report, especially the top three proven practices.

Request that federal agencies publish their proven address data practices, tools, and procedures to an open platform.

Recommend a Phase II for the PRADWG to document federal agency requirements for Puerto Rico address data.

Phase 2 – Top Agency Challenges

- **Source Data** - Puerto Rico does not have a freely available, complete, and authoritative database of addresses, or a single island-wide addressing system. Commercial data sets exist but are incomplete and often not standardized.
- **Data Management** - databases and systems are designed for U.S. city-style addresses and do not include extra fields needed for Puerto Rico addresses.
- **Sharing** is an impediment due to privacy issues and/or legal constraints. Some agencies have restrictions on sharing address information between agencies at the federal-to-federal level, as well as the federal-to-local level.
- **Resources** - the lack of physical addresses requires additional resource assignments of personnel, equipment, and funding in order to fulfill missions.

An aerial photograph of a coastal city. In the foreground, a large, multi-tiered stone fortress sits on a cliff overlooking the ocean. The fortress has several bastions and a central tower. Behind the fortress, a large green field, possibly a stadium or park, is visible. In the background, a dense urban area with many buildings stretches along the coast. The sky is blue with some white clouds.

Phase 3 Overview

Lynda Liptrap

Phase 3

Objective:

Identify Agency Goals and Needs for Puerto Rico Address Data

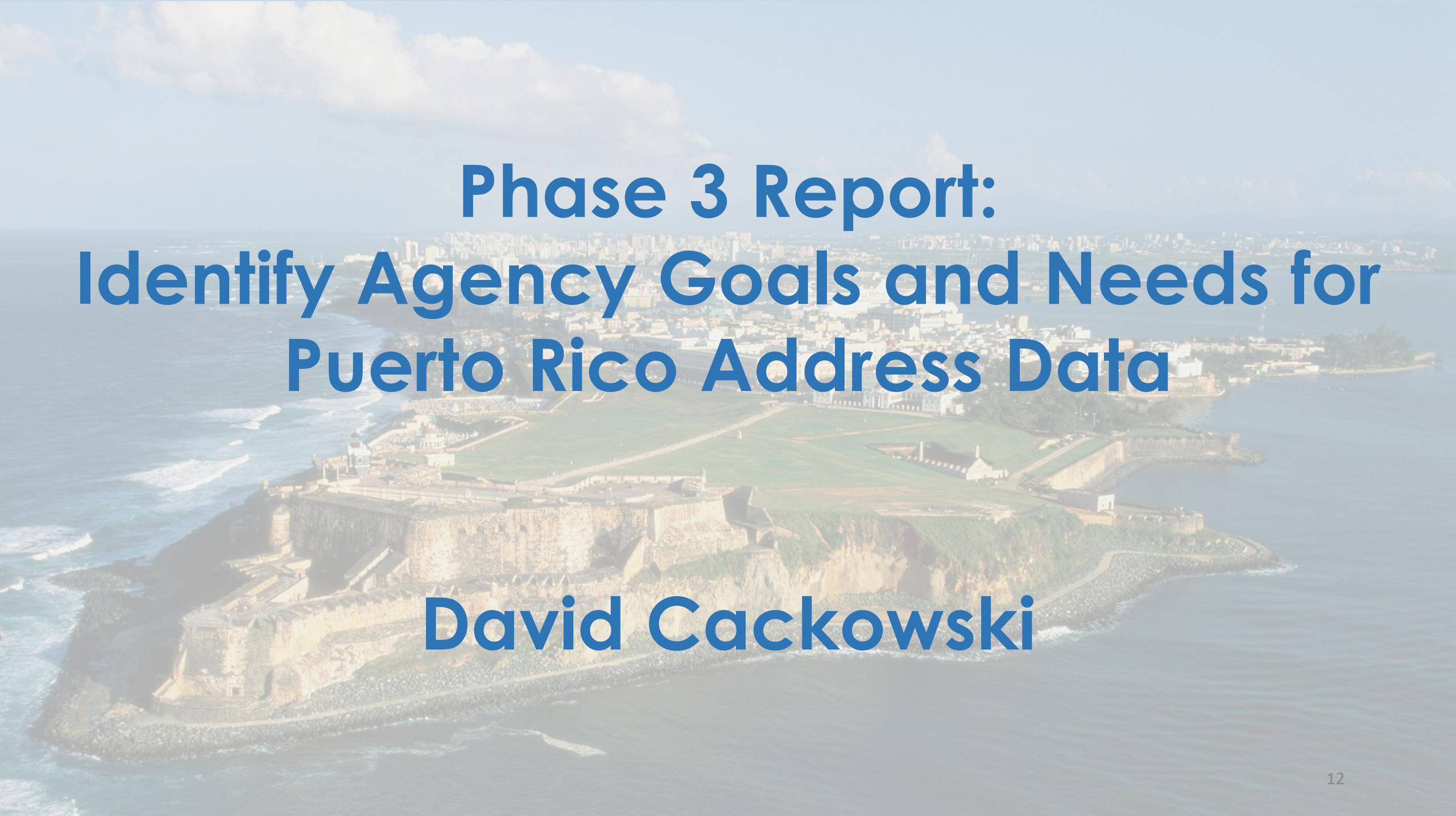
Phase 3 Foundation

- Agency Use Cases
- Existing Address Data Challenges
- Legal and Policy Guidelines
 - Geospatial Data Act
 - Open, Public, Electronic, and Necessary (OPEN) Government Data Act
- Actions Occurring in Puerto Rico

Solving the Problem

Proven Practices + Challenges → Agency Goals and Needs



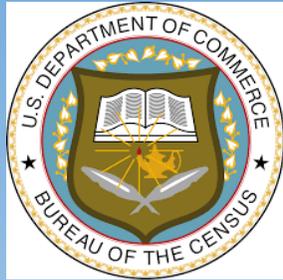


**Phase 3 Report:
Identify Agency Goals and Needs for
Puerto Rico Address Data**

David Cackowski

Participation

- Ten federal agencies responded to the Phase 3 Questionnaire
- Good participation in all PRADWG Phases



Phase 3 Questionnaire and Responses

Question 1: Describe the optimum state of Puerto Rico address data for your agency's mission.

- Responses
 - Physical address for every building and location, linked to parcel data.
 - All mailing addresses are accurate, secured, and align with the USPS standard.
 - Island wide, free, open-source data is regularly updated and enabled to integrate with other systems.

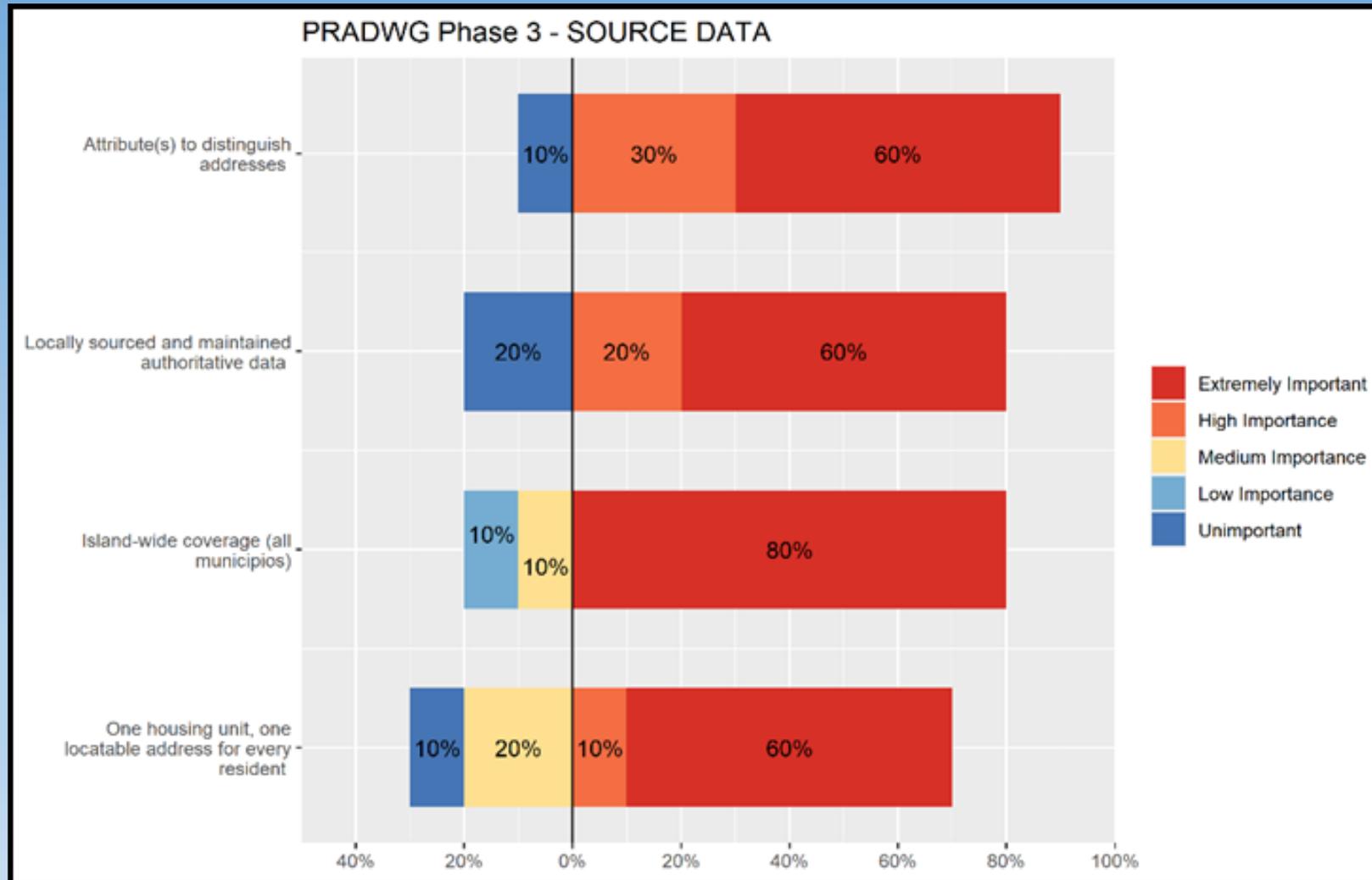
Questions and Responses

Question 2: Provide an example of how a single improvement in Puerto Rico address data might solve or overcome a current challenge in your agency's use or management of the data.

- Responses
 - A field for the Urbanización Name
 - Land Use Attributes
 - Standardized Addresses
 - USPS Coding Accuracy Support System (CASS) approved software to validate and standardize all mailing addresses
 - A single address for each housing unit

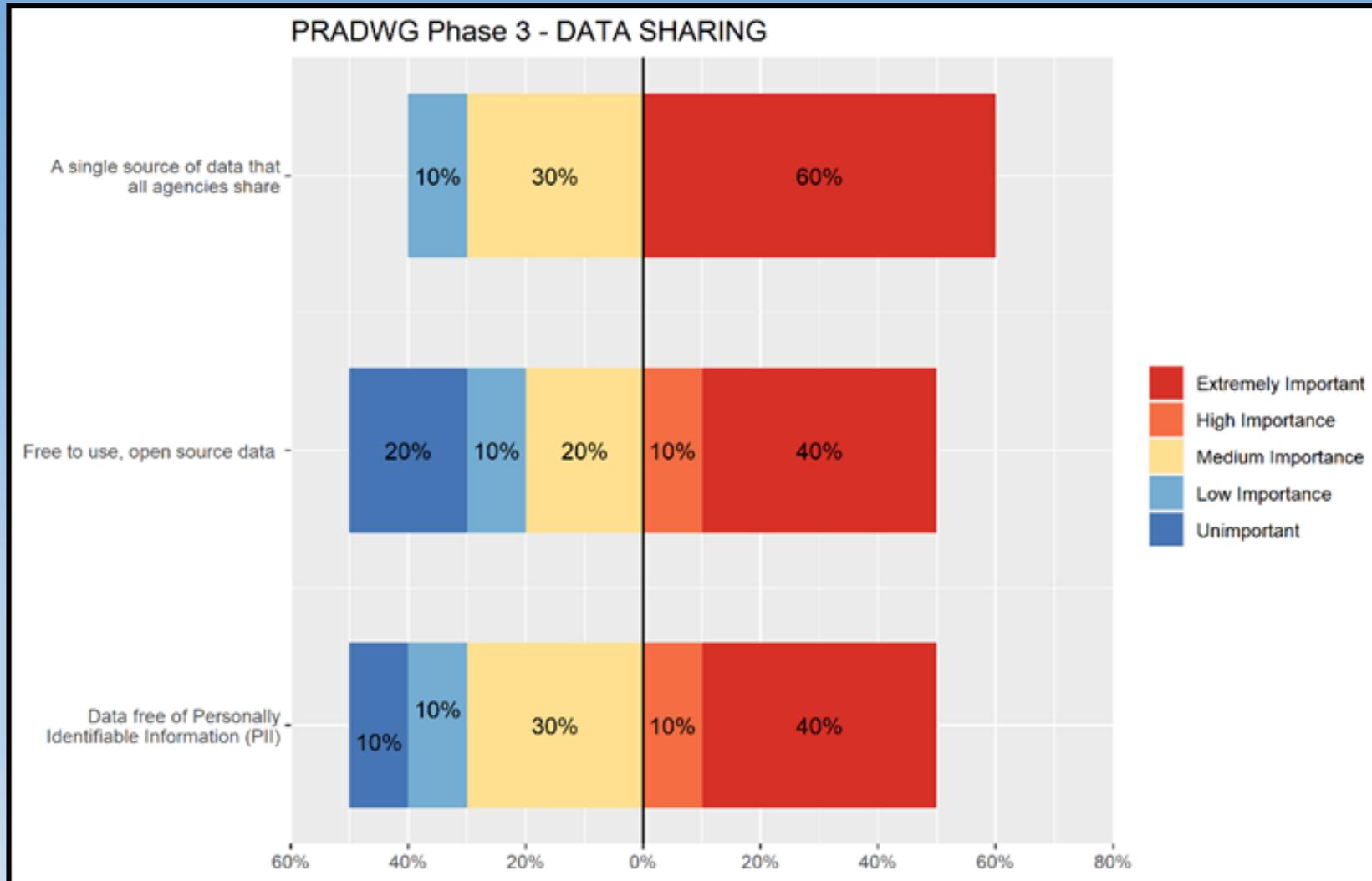
Questionnaire Responses

Data Goals and Needs (Questions 3-6) :



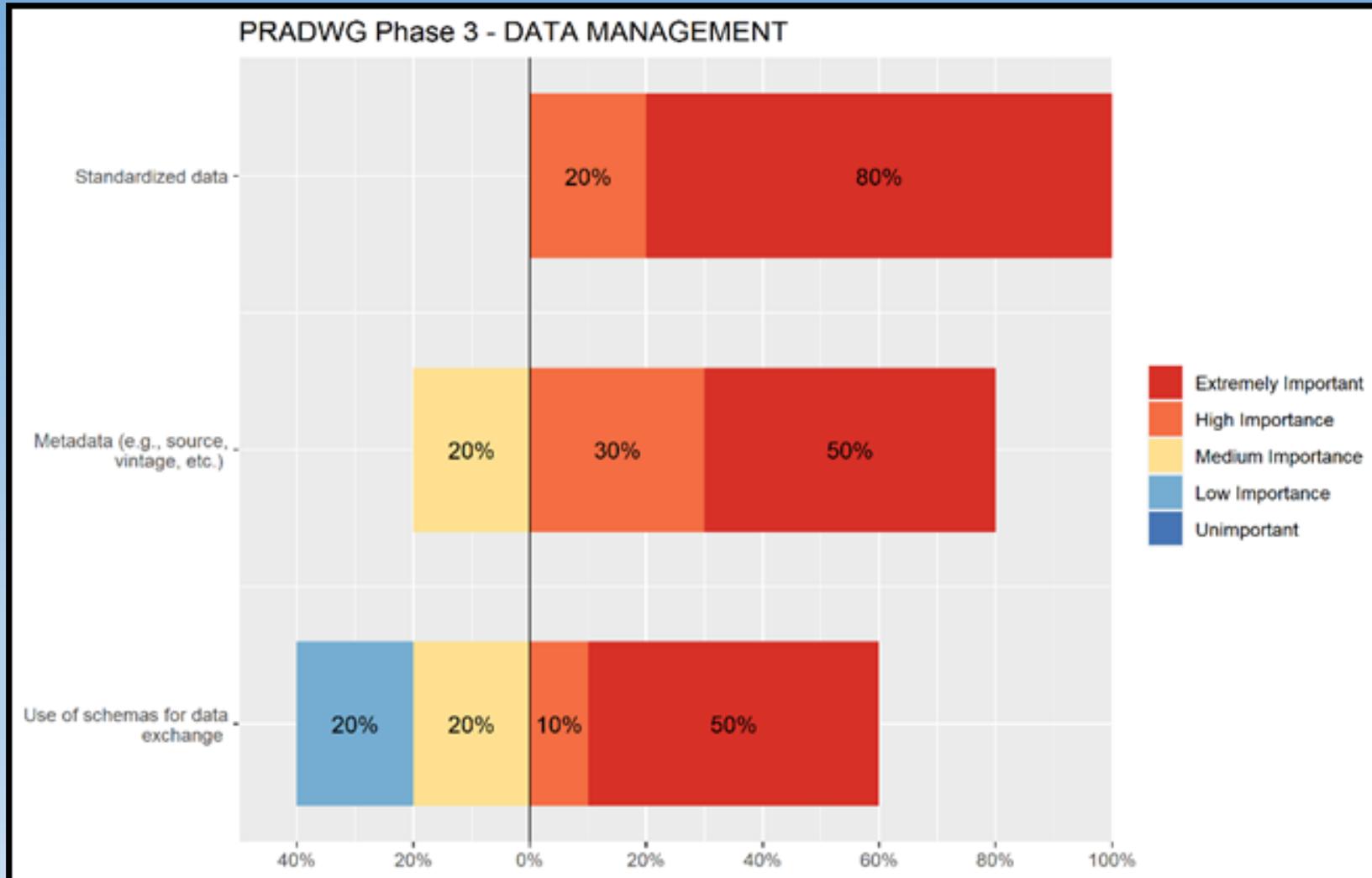
Questionnaire Responses

Data Goals and Needs (Questions 8-10) :



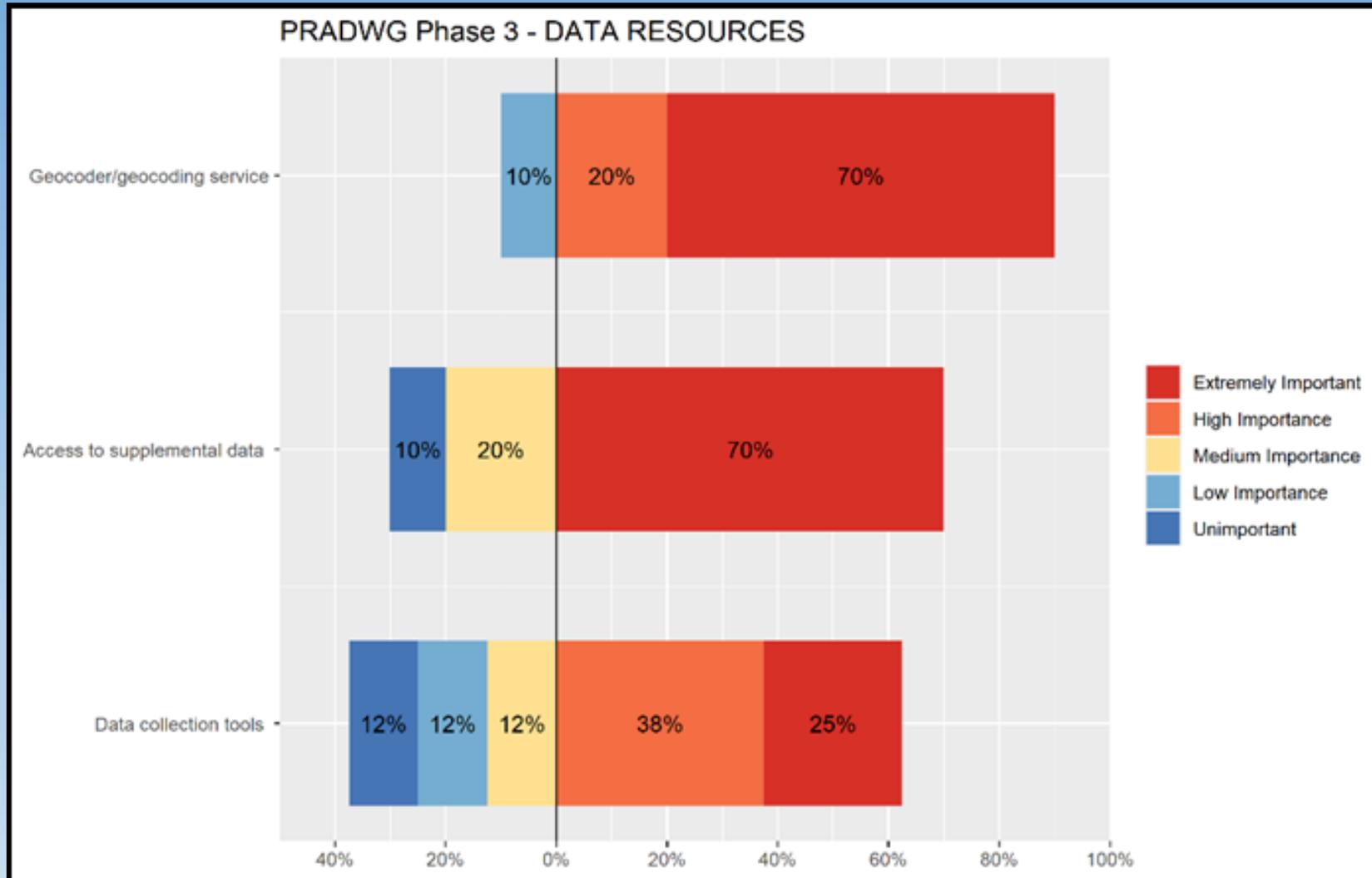
Questionnaire Responses

Data Goals and Needs (Questions 12-14) :



Questionnaire Responses

Data Goals and Needs (Questions 16-18) :



Solutions by Use Case

- Disaster Recovery
- Mailing List
- Mission Planning/Decision Making
- Geolocation
- Additional Use Cases

Going Forward

- Federal Agency Recommendations in Support of Puerto Rico Address Data Goals
 - Open Address Data
 - Proven Practices
 - Support and Utilize Geospatial Information Resources
 - Address Standards
 - Geocoding Processes and Tools
 - Use of Geographic Entities to Ensure Unique Addresses
 - Support Innovative Partnerships

Conclusion

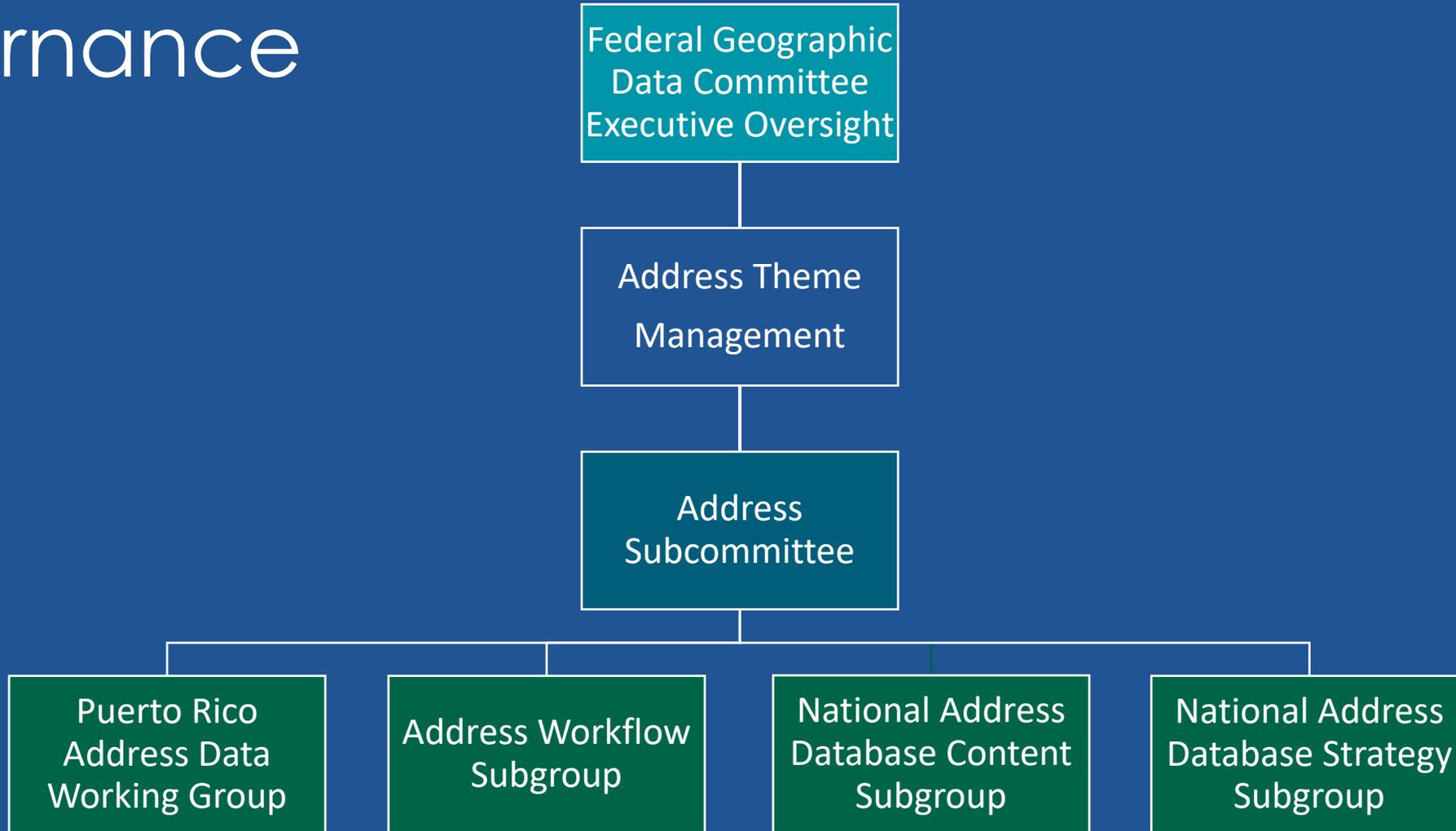
- Federal agencies share similar goals and needs for the Puerto Rico address data that are common to all missions.
- Innovative partnerships across public and private sectors can help solve persistent difficulties with Puerto Rico address data and structures without locatable addresses.
- The OPEN Government Data Act and the Geospatial Data Act (GDA) are models for the development of an open address system in Puerto Rico.

An aerial photograph of a coastal city, likely San Juan, Puerto Rico. In the foreground, a large, multi-tiered stone fortress (Castillo San Felipe del Morro) sits on a rocky cliff overlooking the ocean. The fortress has several bastions and a central tower. Behind the fortress, a large green field (likely a baseball field) is visible, along with several large, light-colored buildings. In the background, the city of San Juan is spread across the coast, with numerous high-rise buildings and a harbor. The sky is blue with some white clouds.

PRADWG Transition

Lynda Liptrap

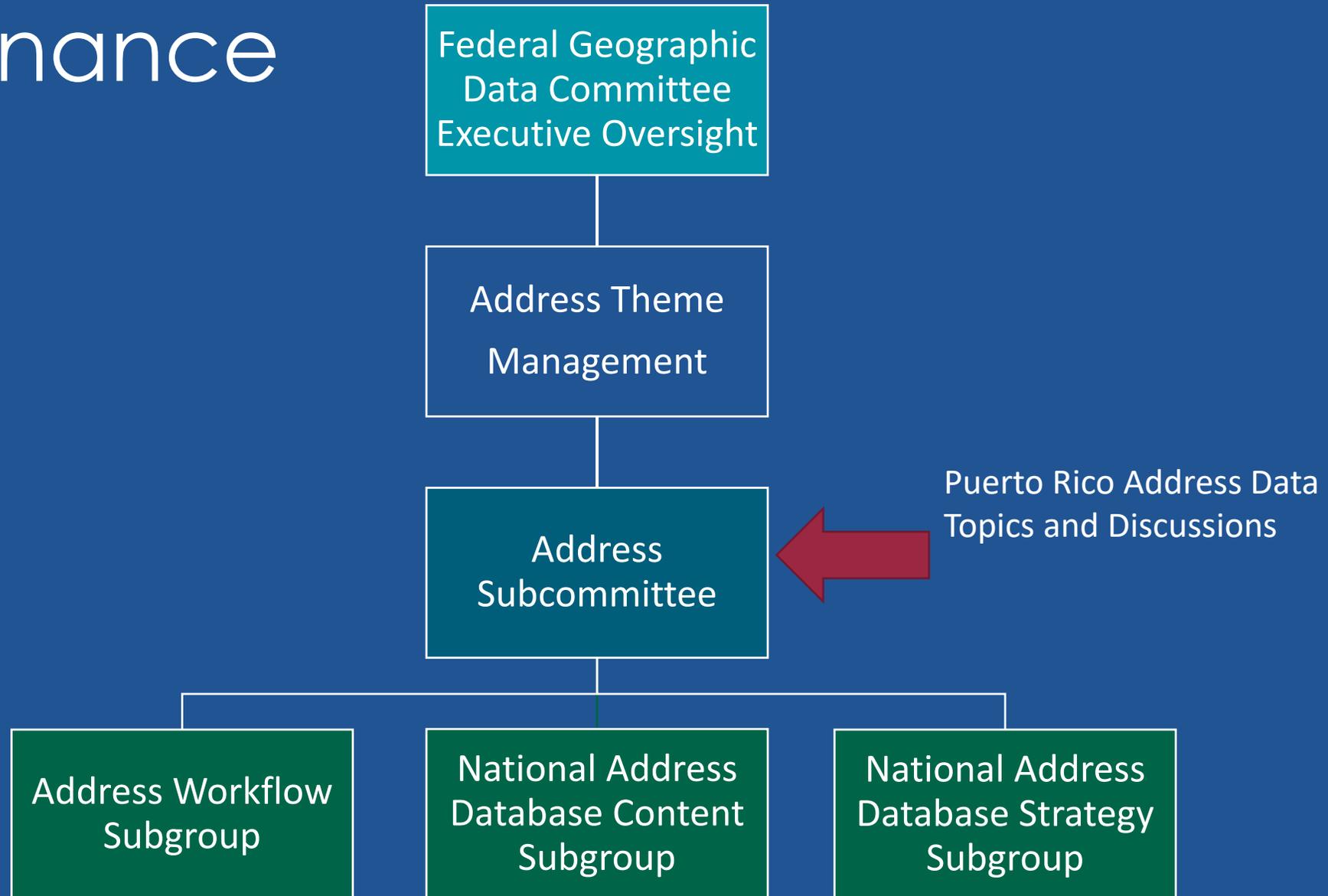
The PRADWG and Address Data Governance



Transitioning from the PRADWG

- Establish a Census Bureau point of contact for Puerto Rico address data stakeholders
- Add PRADWG members to the FGDC Address Subcommittee distribution list
- Continue to include and add Puerto Rico stakeholders to the Address Subcommittee
- Conduct Puerto Rico address data discussions and presentations at FGDC Address Subcommittee Meetings

Address Data Governance



For More Information On The PRADWG

- **Address Data Community**
 - <https://communities.geoplatform.gov/ngda-address/>
- **Puerto Rico Address Data Working Group**
 - <https://communities.geoplatform.gov/ngda-address/puerto-rico-address-data-working-group/>

Thank You To the PRADWG
Agency Participants!